

REMARKS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-5 are pending in the present application. Claims 1-5 are amended by the present amendment without adding new matter.

In the outstanding Office Action, Claims 1-5 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regards as the invention, which rejection is respectfully traversed.

Independent claims 1-4 are amended to more clearly recite that it is holograms of the sample volume that are taken. The claim amendments find support in the specification at page 6, lines 24-26.

Independent claims 1-3 are further amended to more clearly recite that in each case the hologram that is subtracted is one of the sequence of N holograms. The claim amendments find support in the specification at page 7, line 26 to page 8, line 14.

Independent claims 1-4 are further amended to more clearly recite that the step of reconstructing images uses a numerical reconstruction algorithm as exemplified by a Kirchhoff-Helmholtz transform, a Fresnel transform and other similar numerical algorithms. The claim amendments find support in the specification at page 2, lines 4-8 and page 8, lines 9-15.

Independent claim 4 is further amended to more clearly recite the relationship between the series of pixels representing each of the holograms in the time-spaced sequence of holograms. The claim amendments find support in the specification at page 10, lines 10-22.

Independent claims 1, 2 and 4 are further amended to more clearly recite that the step of reconstructing images uses the summed hologram. The claim amendments find support in the specification at page 8, lines 11-15.

Independent claim 4 is further amended to more clearly recite that it is directed to a method for tracking the trajectory of a plurality of objects. The claim amendment finds support in the specification at page 10, line 23 to page 11, line 2.

Claim 5 is amended to change the term 'steps' to the more correct singular form 'step'. Claim inherits the corrections to the deficiencies of claims 1-4, from which it depends, as described above.

Accordingly, it is respectfully submitted that independent claims 1-4 and dependent claim 5, as amended, are definite in accordance with 35 U.S.C. 112, second paragraph.

In light of the above discussion and in view of the present amendment, the present application is believed to be in a condition for allowance and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,



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